

m-F



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,182	03/23/2004	Tarou Takagi	62758-071	1997

7590 09/08/2006

McDermott, Will & Emery  
600 13th Street, N.W.  
Washington, DC 20005-3096

EXAMINER

NGUYEN, PHU K

ART UNIT	PAPER NUMBER
----------	--------------

2628

DATE MAILED: 09/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 10/806,182	<b>Applicant(s)</b> TAKAGI, TAROU	
	<b>Examiner</b> Phu K. Nguyen	<b>Art Unit</b> 2628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 23 March 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 23-29 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 23-29 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All   b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

  
**PHU K. NGUYEN**  
**PRIMARY EXAMINER**  
**GROUP 2300**

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date <u>3/23/04</u> . | 6) <input type="checkbox"/> Other: _____  |

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 23-29 are rejected under 35 U.S.C. 102(e) as being anticipated by  
WAINWRIGHT (6,889,374).

As per claim 23, Wainwright teaches the claimed “engineering system that employs a solid shape describing method for describing a solid model existing in a three-dimensional space with use of a bit map, said system comprising: “a function for defining a plurality of different coordinate systems used for said solid model” (Wainwright, world coordinate; column 5, lines 47-58); “a function for defining that an area occupied by one of said plurality of different coordinate systems overlaps with a part or whole of an area occupied by another coordinate system” (Wainwright, the local coordinates, column 7, lines 62-67); and “a display unit for displaying a solid shape by describing its solid shape data with use of said plurality of different coordinate systems” (Wainwright, display 412; figure 4).

As per claim 24, Wainwright teaches the claimed “engineering system that employs a solid shape describing method for describing a solid model existing in a three-dimensional space with use of a bit map having a cell disposed on a grid point

Art Unit: 2628

defined by a coordinate system, said cell determining whether said grid point exists inside or outside a shape", said system comprising: "a function for defining a plurality of different coordinate systems used for said solid model" (Wainwright, world coordinate; column 5, lines 47-58); "a function for defining that an area occupied by one of said plurality of different coordinate systems overlaps with a part or whole of an area occupied by another coordinate system" (Wainwright, the local coordinates, column 7, lines 62-67); and "a display unit for displaying a solid shape by describing its solid shape data with use of said plurality of different coordinate systems" (Wainwright, display 412; figure 4).

As per claim 25, Wainwright teaches the claimed "An engineering system that employs a solid shape describing method for describing a solid model existing in a three-dimensional space with use of a bit map having a cell disposed on a grid point defined by a coordinate system, said cell determining whether said grid point exists inside or outside a shape", said system comprising: "a display unit" (Wainwright, display 412; figure 4); "a function for displaying a fixed coordinate system used for a predefined three-dimensional space on a screen of the display unit" (Wainwright, world coordinate; column 5, lines 47-58); "a floating coordinate system defining function for accepting a defined single or plurality of floating coordinate systems used for said solid model on said fixed coordinate system displayed on the screen of said display unit" (Wainwright, column 5, lines 29-58); and "a function for defining that an area occupied by one

Art Unit: 2628

coordinate system, of said fixed coordinate system and said floating coordinate systems, overlaps with a part or whole of an area occupied by another coordinate system, wherein said display unit includes a function for displaying a solid shape by describing its solid shape data with use of said fixed coordinate system and said floating coordinate systems" (Wainwright, the local coordinates, column 7, lines 62-67).

Claim 26 adds into claim 25 "said display unit can display a control point of each of said floating coordinate systems" (Wainwright, cursor control point; column 9, lines 10-22).

Claim 27 adds into claim 25 "said display unit can display a control point of each of said floating coordinate systems and set each of said floating coordinate systems on the screen of said display unit" (Wainwright, cursor control point; column 9, lines 10-22).

As per claim 28, Wainwright teaches the claimed "solid shape describing method employed for an information processing system that describes a solid model existing in a three-dimensional space with use of a bit map, said method including a process of setting a plurality of different coordinate systems used for said solid model shape data comprising: "said plurality of coordinate systems are set in said process so that an area occupied by one of said plurality of different coordinate systems overlaps with a part or

whole of an area occupied by another coordinate system” (Wainwright, world coordinate; column 5, lines 47-58); and “said method displays a solid shape obtained from the shape data of said solid model shape data described with use of said plurality of different coordinate system” (Wainwright, the local coordinates, col. 7, lines 62-67).

As per claim 29, Wainwright teaches the claimed “solid shape describing method employed for an information processing system, said method describing a solid model existing in a three-dimensional space with use of a bit map having a cell disposed on a grid point defined by a coordinate system, said cell determining whether said grid point exists inside or outside a shape, wherein: “said solid model has a plurality of different coordinate systems, an area occupied by one of said plurality of coordinate systems is defined so as to overlap with a part or whole of an area occupied by another coordinate system” (Wainwright, world coordinate; column 5, lines 47-58, the local coordinates, column 7, lines 62-67); and “a solid shape is displayed according to the shape data of said solid model described with use of said plurality of different coordinate systems” (Wainwright, display 412; figure 4).


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phu K. Nguyen whose telephone number is (571) 272 7645. The examiner can normally be reached on M-F 8:00-4:30.

Art Unit: 2628

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (571) 272 7664. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Phu K. Nguyen  
August 29, 2006

  
**PHU K. NGUYEN**  
**PRIMARY EXAMINER**  
**GROUP 2300**